

ABSTRACT

5 The present invention provides an apparatus, system and method for transmitting asynchronous transfer mode (ATM) data cells on an ATM adaptation layer (AAL) configured connection within an ATM system comprising a digital signal processor (DSP) sub-system (160) and a host processor (190). The transmitter interfaces directly with the DSP sub-system (160) (which converts the digitized voice samples into voice signals) and the host processor (190) (which performs AAL2 signaling and layer management functions). The transmitter is configured to interleave AAL2 voice packets from the DSP sub-system (160) and signaling and management packets from the host processor (190) on an ATM connection. Data is fetched by DMA(s) (415). A channel look-up table uses the DSP assigned voice channel as an index into the table to map a voice channel to the ATM connection.

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